ABSTRACT

An electronic test system having an object oriented hierarchical infrastructure including classes that allow a test developer or a test user to design a desired electronic test system. The class relationships define the function of the electronic test system.

5   Classes include a procedure class, a test class, a measurement class, a datapoint class, a parameter class, a DUT class, a test system class, a specification class, a run procedure class, a result class, a plug-in class, an exec class, a model class, a device class, a test system device class, a user menu item class, an application class, and a state class. These classes are implemented in a hierarchical structure in which a

10 datapoint is a subset of a measurement, a measurement is a configuration for a test, a test is a group of measurements that share the same test algorithm, and a procedure is an ordered list of tests to be run, and includes a list of measurements and datapoints.